Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. 87. (Cancelled)
- 88. (Currently Amended) A method to configure, via a management interface, an Impulse Noise Protection (INP) capability comprising:

receiving information, at the management interface, indicating one or more of a length and a repetition period of impulse noise events, the repetition period indicating how often impulse noise events occur; and

updating, based on the received information, a first INP value to a second, different, INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected and the second INP value specifying a second number of corrupted DMT symbols that can be corrected, wherein the second number is different than the first number.

- 89. (Currently Amended) The method of claim 88, wherein the length of the impulse noise is a maximum length the received information indicates the presence of periodic impulse noise due to AC power lines.
- 90. (Currently Amended) The method of claim 88, wherein the repetition period-of impulse noise is a maximum period includes information on how often the impulse noise is occurring.
- 91. (Currently Amended) The method of claim 88, wherein the information indicates one or more of a length of impulse noise and a repetition period where a greater INP is needed the second number is different than the first number because an interleaving function spreads an impulse noise event over a period of time that exceeds the repetition period.

- 92. (Previously Presented) The method of claim 88, wherein a service provider or operator updates the first INP value.
- 93. (Previously Presented) The method of claim 88, wherein a management module automatically updates the first INP value.
- 94. (Previously Presented) The method of claim 88, wherein a message is used to communicate the second INP value.
- 95. (Previously Presented) The method of claim 88, wherein the length of the impulse noise exceeds a correction capability of the first INP value.
- 96. (Currently Amended) A method to configure, via a management interface, an Impulse Noise Protection (INP) capability comprising:

configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

receiving impulse noise information, at the management interface, indicating one or more of a length and a repetition period of impulse noise events, the repetition period indicating how often impulse noise events occur, wherein the received impulse noise information indicates a requirement to increase the first INP value; and

updating, based on the received information, the first INP value to a second, greater, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected, wherein the second number is different than the first number.

- 97. (Previously Presented) The method of claim 96, wherein the length of the impulse noise is a maximum length.
- 98. (Currently Amended) The method of claim 96, wherein the repetition period of theimpulse noise is a maximum period.

- 99. (Currently Amended) The method of claim 96, wherein the <u>received impulse</u> noise information indicates an impact of impulse noise.
- 100. (Previously Presented) The method of claim 96, wherein a service provider or operator updates the first INP value.
- 101. (Previously Presented) The method of claim 96, wherein a management module automatically updates the first INP value.
- 102. (Previously Presented) The method of claim 96, wherein a message is used to communicate the second INP value.
- 103. (Previously Presented) The method of claim 96, wherein the length of the impulse noise exceeds a correction capability of the first INP value.
- 104. (Currently Amended) A method to configure, via a management interface, an Impulse Noise Protection (INP) capability comprising:

configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

receiving impulse noise information, at the management interface, indicating one or more of a length and repetition period of impulse noise events, the repetition period indicating how often impulse noise events occur, wherein the received impulse noise information indicates a requirement to decrease the first INP value; and

updating, based on the received information, the first INP value to a second, lesser, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected, wherein the second number is different than the first number.

105. (Currently Amended) <u>Means A system</u> for configuring, via a management interface, an Impulse Noise Protection (INP) capability comprising:

means for receiving information, at the management interface, indicating one or more of a length and repetition period of impulse noise events, the repetition period indicating how often impulse noise events occur; and

means for updating, based on the received information, a first INP value to a second, different, INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected and the second INP value specifying a second number of corrupted DMT symbols that can be corrected, wherein the second number is different than the first number.

- 106. (Previously Presented) The system of claim 105, wherein the length of the impulse noise is a maximum length.
- 107. (Currently Amended) The system of claim 105, wherein the repetition period of the impulse noise is a maximum period.
- 108. (Previously Presented) The system of claim 105, wherein the information indicates one or more of a length of impulse noise and a repetition period where a greater INP is needed.
- 109. (Previously Presented) The system of claim 105, wherein a service provider or operator updates the first INP value.
- 110. (Previously Presented) The system of claim 105, wherein a management module automatically updates the first INP value.
- 111. (Previously Presented) The system of claim 105, wherein a message is used to communicate the second INP value.
- 112. (Previously Presented) The system of claim 105, wherein the length of the impulse noise exceeds a correction capability of the first INP value.

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113. (Currently Amended) <u>A system Means</u> for configuring, via a management interface, an Impulse Noise Protection (INP) capability comprising:

means for configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

means for receiving impulse noise information, at the management interface, indicating one or more of a length and repetition period of impulse noise events, the repetition period indicating how often impulse noise events occur, wherein the received impulse noise information indicates a requirement to increase the first INP value; and

means for updating, based on the received information, the first INP value to a second, greater, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected, wherein the second number is different than the first number.

- 114. (Previously Presented) The system of claim 113, wherein the length of the impulse noise is a maximum length.
- 115. (Currently Amended) The system of claim 113, wherein the repetition period of the impulse noise is a maximum period.
- 116. (Currently Amended) The system of claim 113, wherein the <u>received impulse</u> noise information indicates an impact of impulse noise.
- 117. (Previously Presented) The system of claim 113, wherein a service provider or operator updates the first INP value.
- 118. (Previously Presented) The system of claim 113, wherein a management module automatically updates the first INP value.
- 119. (Previously Presented) The system of claim 113, wherein a message is used to communicate the second INP value.

- 120. (Previously Presented) The system of claim 113, wherein the length of the impulse noise exceeds a correction capability of the first INP value.
- 121. (Currently Amended) Means for configuring, via a management interface, an Impulse Noise Protection (INP) capability comprising:

means for configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

means for receiving impulse noise information, at the management interface, indicating one or more of a length and repetition period of impulse noise events, the repetition period indicating how often impulse noise events occur, wherein the received impulse noise information indicates a requirement to decrease the first INP value; and

means for updating, based on the received information, the first INP value to a second, lesser, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected, wherein the second number is different than the first number.